

VRBASKI, T.

VRBASKI, T. Formaldehyde.

Vol. 4, No. 6, June 1955

KEMIJA U INDUSTRIJI

SO: Monthly List of East European Accessions, (FEAL, LC, Vol. 5, No.3  
March, 1956

VRBASKI, T.

(2)

Chlorophyll. III. Chromatographic investigations on chlorophyll. T. Vrbaski (*Inst. Ind. Invest., Zagreb, Yugoslavia*). *Arhev Kem.* 23, 184-7 (1951); *Ch. C.A.* 46, 8941, 8995e. — In a no. of previous studies V. has demonstrated formation of mol. of complex compds. from aromatic nitro and nitroso compds. and chlorophyll *in vitro* which are stable to light and do not fluoresce. In the present expts. formation of the same type of compd. was shown for chlorophyll in the adsorbed state (on sucrose). The pigment was extd. from the leaves of the nettle (*Urtica dioica*) and chromatographed through a layer of powd. sucrose as a ligroine-benzene soln. In such adsorbed condition it proved very photosensitive and was bleached rapidly. On addn. of one crystal of *p*-nitrosodimethylaniline prior to chromatography the eluate was quite stable to light. The effect of the nitroso compd. in this case was not due to its light-filtering properties (as internal filter), but to formation of a light-stable addn. compd. with chlorophyll, even when the latter was in the adsorbed state. The nitroso compd. itself is not adsorbed by sucrose but passes the chromatographic column unchanged. It was shown further that sucrose-adsorbed chlorophyll emits intense red fluorescence in ultraviolet light. However, when the chromatography was performed in the presence of the above nitroso compd., the fluorescence was much weakened and was of gray-red

shade. This extinguishing effect exhibited by the inhibitor on the ligroine-benzene eluate of chlorophyll was qualitatively quite similar to the same effect on the MeOH soln. of chlorophyll described before (*loc. cit.*). Tests of sucrose as an adsorbent were carried out with chlorophyll alone and showed that the properties of the eluate (both *a* and *b* chlorophyll) were the same as those of nonchromatographed chlorophyll. Sucrose is a neutral adsorbent and exerts true affinity to some compds., hence adsorbed chlorophyll forms an adsorption rather than polar compd. with sucrose. The adsorption compd. between sucrose and the aromatic nitroso chlorophyll complex is a true adsorption. Therefore the affinity between the adsorbed nitroso compd. and chlorophyll remains unchanged in comparison with the nonadsorbed one. In the case of polar adsorption affinities these would form at the expense of the inner affinities of the aromatic nitroso chlorophyll complex itself, weakening the latter so that the complex would decomp. The opposite was shown in these expts. on the sensitivity to ultraviolet light and thermal oxidation. The stability of this complex, even in the adsorbed state, is regarded by V. as a qual. proof of the existence of complex formation between aromatic nitro and nitroso compds. and chlorophyll.

C. S. Shapiro

VRBASKI, T.

"Tetraethyllead."

Kemija U Industriji, Zagreb, Vol 3, No 1, Jan 1954, p. 5

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

VRBASKI, T.

Yugoslavia (430)

(continued) the Chemical Section of the Croatian Society of Engineers and Technicians. Some articles written in English and German. Summaries in English or other western languages/. Vol. 23, no. 3/4, 1951.

East European Accessions List. Library of Congress. Vol. 2, No. 6, June 1953. Unclassified  
"Card 2 of 2"

VRBASKI, T.

Yugoslavia (430)

Science-Periodicals

Studies of shlorophyll III; chromatographic  
analysis of chlorophyll. p. 184 ARHIV ZA KEMIJU.  
(Hrvatsko kemijsko drustvo i Sekcija kemicara  
Drustva inzenjera i tehnicara Hrvatske) Zagreb.  
/Quarterly of the Croatian Chemical Society and

East European Accessions List, Library of Congress,<sup>1</sup>  
Vol. 2, No. 6, June 1953, Unclassified.

"Card 1 of 2"

VRBASKI, T.

Yugoslavia (430)

Technology

Production of vinegar anhydride and vinegar acid by  
acetaldehyde oxidation. p. 36, KEMIJA U INDUSTRIJI.  
Vol. 1, no. 2, 1952.

East European Accessions List, Library of Congress,  
Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.

VRBASKI, T.

Vrbaski, T. Brihta, I.

"A study of the catalytic oxidation of aldehydes to fatty acid anhydrides." p. 111  
(Arhiv Za Kemiju., Vol. 24, 1952, Zagreb)

SO: Monthly List of East European Accessions, Vol. 2, No. 9, Library of Congress, September  
1953, Uncl.

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

~~... of the ... and anhydrides~~

VRBASKI, T.

The kinetics of oxidation of aldehydes to acids and acid anhydrides T. Vrbaski and J. Babić, Inst. and Inst.

Zagreb, Yugoslavia, Paper No. 26, 287-84

1951 in English, 49 pages. The reaction mechanism of aldehydes was investigated by studying the rate

of oxidation of aldehydes to acids and acid anhydrides in the presence of various metal ions. The reaction was studied in the presence of various metal ions, and the rate of oxidation was found to be dependent on the concentration of the metal ions. The reaction was studied in the presence of various metal ions, and the rate of oxidation was found to be dependent on the concentration of the metal ions.

in the presence of various metal ions. The reaction was studied in the presence of various metal ions, and the rate of oxidation was found to be dependent on the concentration of the metal ions. The reaction was studied in the presence of various metal ions, and the rate of oxidation was found to be dependent on the concentration of the metal ions.

butyrate the decomposition rate of this reaction at 40° was greater than with the corresponding Mn(III) salt soln. The rate of reaction II without catalysts was very slow and was 2nd

order with an activation energy of 10,570 cal, and a frequency factor of  $k = 7.20$ . The simultaneous catalytic

order with an activation energy of 10,570 cal, and a frequency factor of  $k = 7.20$ . The simultaneous catalytic

order with an activation energy of 10,570 cal, and a frequency factor of  $k = 7.20$ . The simultaneous catalytic

order with an activation energy of 10,570 cal, and a frequency factor of  $k = 7.20$ . The simultaneous catalytic

order with an activation energy of 10,570 cal, and a frequency factor of  $k = 7.20$ . The simultaneous catalytic

order with an activation energy of 10,570 cal, and a frequency factor of  $k = 7.20$ . The simultaneous catalytic

order with an activation energy of 10,570 cal, and a frequency factor of  $k = 7.20$ . The simultaneous catalytic

order with an activation energy of 10,570 cal, and a frequency factor of  $k = 7.20$ . The simultaneous catalytic

N. Plavšić

(1)

VRBATA, Josef, inz. arch.

Experimental house in Nový Měst. Poz stavby 13 no.1:17-20  
'65.

1. Pozemní stavby, Ústí nad Labem.

VRBATA, Vaclav

New technical motion picture shown in the Czechoslovak coalfields.  
Uhlí 7 no.4:139 '65.

VRBATA, Vaclav

Motion-picture series on mining. Uhli 6 no.10:354 0 '64.

VRBATA, Vaclav

Development of the activity of the scientific and technical  
units of economic information on fuels. Uhli 6 no.1:23-24  
Ja'64.

VEBATA, Vaclav

Motion pictures, a tool of education in new techniques. Uhli 4  
no.1:30 Ja '62.

1. Ministerstvo paliv a energetiky.

VR'ECHEV, P.

Working Methods of the Methodology Office of the "ASFEN KHALA-CHIEV"  
State Textile Enterprise at Pleven. Leka Promishlenost (Light Industry),  
#5:32:May 55

VRBECKY, J.

Traumatic dislocation of the hip joint in newborn infants. Acta chir.  
Orthop. traum. czech. 29 no.2:189-192 '62.

1. Ortopedicke oddeleni OUNZ Blansko, nemocnice v Boskovicich, prednosta  
MUDr. J. Vrbecky. (HIP fract & disloc) (BIRTH INJURY)

Vrbecky, J. Dr.  
WAGNER, K., Dr.As.; FLODER, G., Dr.; HAMPEL, Fr.Dr.; HOLUB, J.Dr.;  
VRBECKY, J.Dr.

Treatment results of congenital femur dislocation in infants by  
passive method as compared with functional treatment with view to  
necrosis of the femoral head. Acta chir. orthop. traum. cech. 22  
no.1-2:54-62 Feb 55.

1. Z klin. pro orthop. chir. PU v Olomouci; predn. prof. MUDr.  
Arnold Pavlik.

(FEMUR HEAD, dislocation

congen. compar. evaluation of passive & funct. treatment  
with reference to femur head necrosis)

(FEMUR HEAD, diseases

necrosis, importance in indic. for passive of funct.  
treatm. of congen. disloc.)

PUNCOCHAR, Z., inz.; JICINSKY, J., dr., inz.; HANCL, J.; BECVAR, J.; STROBL, L.;  
KARNOVSKY, inz.; KLIKA, R.; KRUMNIKL, Fr., inz.; SORAL, J., inz.;  
TEINDL, J.; VRBENSKA, inz.

Information on metallurgy. Hut listy 17 no.11:816-829 N '62.

Z/056/62/019/003/003/006  
1037/1237

AUTHOR: Hřivňáková, D. and Vrbenská, J.

TITLE: The quality of Al wire cast and rolled by the Properzi system

PERIODICAL: Přehled technické a hospodářské literatury, Hutnictví a a Strojirenství, v. 19, no. 3, 1962, 163, abstract HS 62-2072. (Hutník, v. 11, no. 9, 1961, 436-440)

TEXT: Description of a new highly productive method of Al wire production known as the Properzi method. Shortcomings of the wire produced by this method, especially its high brittleness after the diameter has been considerably reduced by drawing. Variations in the production process, based on a series of tests, are suggested. The new process is based on adequate glowing of the rolled wire before drawing. There are two photographs, 2 microphotographs, 4 tables, and 4 references.

[Abstracter's note: Complete translation.]

Card 1/1

POPOV, A.A.; VRENSKAYA, Ya.

Austenite transformation in steels with abnormal structure. Trudy  
Ural. politekh. inst. no.68:5-23 '58. (MIRA 12:7)  
(Steel---Metallography)

VRENSKA

New method of oxide coating of electrotechnical cold-rolled steel. El tech obzor 51 no.2:86. F '62.

SOV/137-59-2-3577

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 2, p 181 (USSR)

AUTHOR: Popov, A. A., Vrbenskaya, Ya.

TITLE: Transformation of Austenite in Steels With "Abnormal" Structure  
(Prevrashcheniye austenita v stal'yakh s "anormal'noy" strukturay)

PERIODICAL: Tr. Ural'skogo politekhn. inst-a, 1958, Nr 68, pp 5-20

ABSTRACT: The authors investigated specimens of Fe-VIT, carburized St20 steel, and steel with 1.4% C deoxidized under different procedures. The abnormal structural formation in the zones of hyper-eutectoid composition was investigated on specimens heated to 980°C, cooled slowly to 730°C, and subsequently cooled at the rates of 10, 30, 60, and 300°C/hour. Metallographic investigations showed that structural abnormality is exhibited most frequently in carburized Fe. In the process of cooling to 730°C at the rate of 10°C/hour a fine lattice network of cementite is formed, at ~710°C areas of free ferrite and pearlite come into being, at 695°C the transformation is complete, and the ultimate structure consists of a partially disrupted crude cementite lattice network and large fields of ferrite and small areas of lamella pearlite located at some distance from the cementite lattice.

Card 1/2

SOV/137-59-2-3577

Transformation of Austenite in Steels With "Abnormal" Structure

A change in the cooling rate changes the transformation temperatures. The abnormal structure does not appear upon cooling in air. On the strength of a theoretical examination of the effect of C on the kinetics of the formation of various structural constituents in steel it is shown that the formation of abnormal structure is facilitated by the presence of previously precipitated carbides and proceeds with greater intensity as the C and gases (O<sub>2</sub> in particular) content in the austenite increases.

L. M.

Card 2/2

VRBENSKI, E

USSR/Cultivated Plants - Technical. Oleaginous. Sugar-Bearing.

L-5

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69296

Author : Vrbenski, E.

Inst :

Title : Districting Flax Sowings.

Orig Pub : Za sots. s-kh. nauku, 1956, 5, No 1, 1-12

Abst : The scientific-experimental institute of agricultural economics in Prague, with its branches in Brno and Bratislava and participation of specialized scientific-experimental institutes, in 1954 established districting for 7 basic cultures, including flax. A brief characterization of soil-climatic and economic conditions is furnished for 4 zones distinguished by the economics institute. In the author's opinion, for the culture of flax, potatoes and oats are best suited in crop rotation.

Card 1/1

VRENSKY, Jozef, inz.

Boris Jevgenievic Paton, a representative of people.  
Zvaranie 11 no.5:129 My '62.

VRBENSKY, Jozef, inz.

Walter Edstrom; obituary. Zvaranie 11 no.10:295 0 '62.

1. Vyskumny ustav zvaracsky, Bratislava.

VRBENSKY, Jozef, inz.

The eleventh volume of the periodical Zvaranie. Zvaranie 11  
no.1:1 Ja '62.

1. Vyskumny ustav svaracsky, Bratislava.

VRBENSKY, V.

ADVOCATING RAPE CULTIVATION.

P. 31, (Rolnicke Hlasy) Vol. 10, no. 7, July 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EMAI) Vol. 6, No. 11 November 1957

VRBENSKY, V.

VRBENSKY, V. Science and its application in irrigation research. p. 382.

Vol. 5, No. 11, Nov. 1955  
VODNI HOSPODARSTVI  
TECHNOLOGY  
Praha, Czechoslovakia

So: East European Accessions, Vol. 5, No. 5, May 1956

VRBENSKY, V.

"Fertilizing System in Grassland Farming." p. 1262 (ZA SOCIALISTICKE ZEMEDELSTVI,  
Vol. 3, No. 11, Nov. 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,  
April 1954. Unclassified.

1ST AND 2ND OBJECT										3RD AND 4TH OBJECT									
PROCESSING AND PROPERTY INDEX																			
<div style="position: relative; height: 100px;"> <span style="position: absolute; top: 10px; left: 10px; font-size: 2em;">CA</span> </div>										U. S. S. R.									
										<p><b>Catalase in hops.</b> Václav Vrbský. <i>Průmyslový Česopis Kvas 68, 1-2</i> (1940); <i>Chem. Zvesti</i>: 1940, 1, 3333.</p> <p>Methods of detg. the catalase content of hops and the question of evaluating the hops on the basis of catalase content are discussed. The catalase is localized especially in the spindle although the proportion of spindle on the</p>									
										<p>plant is without influence on the total catalase content. Old hops contain less catalase. In general, the content of the hops varies in a manner parallel to the catalase content. Characteristic differences are shown in the catalase content depending upon the locality in which the plant was grown. With proper simplification and standardization the detn. of catalase can be used for the practical estn. of the quality of hops.</p> <p style="text-align: right;">M. G. Moore</p>									
A.S.U.S.A. METALLURGICAL LITERATURE CLASSIFICATION																			
FROM SYNDICATE										FROM BOWMAN									
GROUPS										CLASSIFICATION									
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20										1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20									

VRBENSKY, Vaclav

Experience in the testing of Czechoslovak refrigerator cars  
abroad. Prum potravin 15 no.1:21-22 Ja'64.'

1. Zavody Vitezneho unora, n.p., zavod Frigera, Kolin.

VRBIC, P.

Yugoslavia (430)

Technology

Intrusion of carbon dioxide in the Velenje colliery.  
p. 114, Nova Proizvodnja, Vol. 2, no. 2/4, August 1951.

East European Accessions List, Library of Congress,  
Vol. 2, No. 3, March 1953. UNCLASSIFIED.

SLAVKOVIC, Jovan; PAPO, Isidor; VRCELI, Stefanija; KOVACEVIC, Miroslav

Diagnosis of tricuspid stenosis and results of mitral valvulotomy  
in a case of mitral and tricuspid stenosis. Srpski urn. celok.  
lek. 92 no.4:435-444 Ap '64

1. Interna klinika "A" Medicinskog fakulteta Univerziteta u  
Beogradu (Upravnika prof. dr. Branislav Stanojeric) i Hicorska  
klinika Vojnomedicinske akademije u Beogradu (Upravnika prof.  
dr. Isidor Papo).

VRBIC, P.

Paul Abstracts

Vol. IV No. 2

Feb. 1964

Natural Solid Earth

Abstracts

1039. INTRUSION OF CARBON DIOXIDE IN VELENJE COLLIERY. Vrbic, P.  
(Neva Proizvod. (New Industr., Yugoslav.), 1951, vol. 2, 115-122; abstr. in  
Chem. Abstr., 1953, vol. 47, 5581). The site of the Velenje colliery and  
former intrusions of carbon dioxide are described. The catastrophe of 1950  
is discussed. Areas where gas intrusions may be expected are indicated and  
preventive measures discussed. The carbon dioxide danger comes from the  
gas-carrying strata of overlying rocks and increases in direct ratio with  
increase in the depth of the seam. S.M.R.

YUGOSLAVIA

S. VRBIC, Federal Atomic Energy Commission, Belgrade.

"Protecting Medical Workers and Population from Medical Radiation Sources."

Belgrade, Higijena, Vol 14, No 2-3-4, 1962; pp 175-180.

Abstract: After a general review of some WHO and Western data, author stresses mainly need for accurate records in radiologic diagnosis. There are nearly 7 million radiologic examinations in Yugoslavia every year, but only just over 200 radiologists. This inadequacy of specialized workers, coupled with the often obsolete equipment, poor habits and imprecise regulations, pose many dangers, some of which could be easily eliminated, while others are to be kept in mind in planning.

11/1

VRBICKY, B.; SULC, J.

Ascertaining the flow of subterranean waters. p. 190.

UHLI (Ministerstvo paliv) Praha, Czechoslovakia. Vol. 1, no. 6, June 1959

Monthly list of East European Accessions (EEAI), Vol. 9, no. 1, Jan. 1960

Uncl.

VRBLICKY, B.

"Microbiological examination of the relationship between surface water and water in mines." P. 344.

RUDY. (Ministerstvo hutního průmyslu a rudných dolů). Praha, Czechoslovakia, Vol. 3, No. 11, Nov. 1955.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.  
Uncla.

VRBICKY, B.

Control of the separating process in coal washing plants according to the curves of washability. p. 267.  
UHLI, Prague, Vol. 4, no. 9, Sept. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6, June 1956, Uncl.

WREICHT, P.

Some remarks on deep mine drainage. (To be conf.) P. 31.

30. East European Accessions List, Vol. 3, No. 9, Sept. 1957, Lib. of Congress

VERICITY, B.

Some remarks on deep mine drainage. P. 75.

SO: East European Accessions List, Vol. 3, No. 3, Sept. 1954, Lib. of Congress

VRBICKY, B.

"Some Remarks on Deep Mine Drainage." p. 73, Vol. 2, no. 3, Mar. 1954. Praha

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

VRBICKY, Bohuslav, inz., Sc.C.

"Detritus in Ostrava-Karvina coal basin" by Jan Pista. Reviewed  
Bohuslav Vrbicky. Uhli 4 no.1:39-40 Ja '62.

1. Hornicky ustav, Ceskoslovenska akademie ved, Praha,

VRBICKY, B.; WECKER, K.

Methods of dewatering detritus in the Ostrava-Karvina coal basin. Vysl ban vyzk 3:137-145 '64.

1. Institute of Mining, Czechoslovak Academy of Sciences, Prague (for Vrbicky). 2. Degasification and Dewatering Plant of the Ostrava-Karvina Coal Basin.

VRBICKY, BOHUSLAV  
SURNAME, GIV ~~was~~

Country: Czechoslovakia

(2)

Academic Degrees: /not given/

Affiliation:

Source: Prague, Casopis pro Mineralogii a Geologii, Vol VI, No 2, 1961,  
pp 161-172.

Data: "Hydrological Function of the Lipnice Disturbance in the Sokolov  
Area."

Authors: VRBA, Jaroslav, /presumably/ Water Resources Vodni zdroje, Prague.

VRBICKY, Bohuslav, /presumably/ Institute of Mines (Hornicky ustav),  
CSAV /Ceskoslovenska akademie ved; Czechoslovak  
academy of Sciences/, Prague.

670 98164)

VRBICKY, J.

Early issuing of invoices concerning harvesting operations. p. 321.  
(Mechanisace Zemedelstvi, Vol. 7, no. 14, July 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no.10, October 1957. Uncl.

L 37254-66 EWT(m)

ACC NR: AP6027882

SOURCE CODE: CZ/0038/66/000/003/0104/0105

AUTHOR: Vrbicky, Bohuslav; Simon, Liboslav

ORG: Mining Institute, CSAV, Prague (Hornicky ustav CSAV)

TITLE: Use of radioisotopes<sup>19</sup> to identify freezing drills in the sinking of shafts

SOURCE: Jaderna energie, no. 3, 1966, 104-105

TOPIC TAGS: radioisotope, mining engineering

ABSTRACT: The article reports the results of experiments conducted to identify freezing drills by means of the radioisotope Co-60 in the sinking of air-shafts in the lignite deposit at Ratiskovice. The method developed is very simple, rapid and reliable. It permitted making clear the situation at a depth of 75 meters and improving the drilling technique. This paper was presented by A. Tezky. Orig. art. has: 1 figure. [JPRS: 36,845]

SUB CODE: 08, 18 / SUBM DATE: none

Card 1/1

UDC: 622.:539.16

0917

13 25

Pediatrics

CZECHOSLOVAKIA

UDC 616.002.771-053.2-074

KRATKOVA, E.; VRBOVA, K.; Department of Internal Pediatrics,  
Thomayer's Hospital (Detske Interni Oddeleni Thomayerovy Nemocnice),  
Prague - Krc, Head (Primarka) Dr E. KRATKOVA.

"Dynamics of Laboratory Tests in Children Suffering from Rheumatic  
Fever."

Prague, Casopis Lekarů Českyh, Vol 105, No 22, 3 Jun 66, pp  
585 - 591

Abstract [Authors' English summary modified]: Laboratory findings  
in 86 children suffering from rheumatic fever were investigated  
dynamically for a period of 11 weeks. MPT, total protein, albumin,  
alpha<sub>1</sub>, alpha<sub>2</sub>, beta, and gamma-globulins, and sedimentation rate  
were determined once a week, ASLO titres once every three weeks.  
Average sedimentation rates declined from the original value of 74  
to 23 at the end of the period. Average MPT values declined from  
6.6 mg% to 4 mg%, ASLO titres from 542 to 258 units. Total protein,  
alpha<sub>1</sub> and beta fractions did not change, average albumin values  
rose from 47 to 54%. Average alpha<sub>2</sub> values declined from 12.5 to  
11%, gamma globulin 21.7 to 16.5%. 1 Figure, 13 Tables, 2 Western  
1/1 5 Czech, 1 Hungarian reference. (Ms. rec. Jun 65).

L 13392-66

ACC NR: AP6006739

Orig. art. has: 4 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 05Oct64 / OTH REF: 019

Card 2/2

VRBICKY, J.

VRBICKY, J. Again on collecting cash for the work of machine-tractor stations  
by post office. p. 344.

Vol. 6, no. 18, Sept 1956  
MACHANISACE ZEMEDELSVI  
AGRICULTURE  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

VRBICKY, Vaclav, inz.

Evaluation of the investment cost by calculating the cost of individual component units. Poz stavby 11 no.1:6-9 '63.

1. Ministerstvo dopravy a spoju, Praha.

VRBICKY, Vaclav, inz.; JIRIK, Otto, inz.

Methods of determining the passenger traffic in railroad stations.  
Doprava no.3:176-180 '63.

VRBIK, Jiri, inz.

Fifth International Congress on Dyeing. Chem prum 13 no.6:  
312 Js '63.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and  
Their Application. Part 4. - Dyeing and Chemical  
Treatment of Textile Materials.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72724.

Author : Jiri Vrbik.

Inst :

Title : Preparations for Fire-Resistant Impregnation of  
Textile Materials.

Orig Pub: Chem. prumysl, 1956, 6, No 2, 62-64.

Abstract: Principles of fire-resistant impregnation. Description of various kinds thereof, their imperfections and advantages. The best preparation is the complex compound of Ti and Sb  $[Ti(OH)_2-O-Sb(OH)_2]$  developed in Czechoslovakia under the name Sinignite SA, which

Card : 1/2

MENSIKOVA, Z.; POLAK, O.; VRBIK, J.; Technicka spoluprace KARLICKOVA, H.;  
SKRIVANOVA, S.

The clinical and ~~electroencephalographic~~ picture of brain abscesses.  
Acta univ. carol. [Med] no.1:89-110 '61.

1. Neurologicka klinika fakulty vseobecneho lekarstvi University  
Karlovy se sidlem v Plzni, prednosta prof. dr. V. Pitha.

(ELECTROENCEPHALOGRAPHY) (BRAIN ABSCESS diag)

VRBIK, J.

Uninflamable finishing of textiles. (To be contd.) p. 247. TEXTIL.  
(Ministerstvo lehkého průmyslu) Praha. Vol. 9, no. 8, Aug. 1954.

SOURCE: East European Acquisitions List, Vol. 5, no. 9, September 1956

VRBIK, J.

Seminar on purification of waste water from dyeing plants.  
Chem prum 13 no.6:310 Je '63.

1. Vyzkumny ustav organickych syntez, Rybitvi.

MENSIKOVA, Z.; POLAK.O.; VRBIK,J. Technicka spoluprace: KARLICKOVA, H.;  
SKRIVANOVA, S.

Clinical and electroencephalographic picture of thrombosis  
and stenosis of the carotid arteries. Acta Univ. Carol. [med.]  
(Praha) 9 no.8:673-701 '63

1. Neurologicka klinika lekarske fakulty University Karlovy v  
Plzni.

MENSIKOVA, Z.; VRBIK, J.

Clinical picture and electroencephalogram of cerebral hemorrhages simulating expansive processes. Cesk. neurol. 27 no.3: 193-198 My'64

1. Neurochirurgická klinika lékařské fakulty KU [Karlovy university] v Hradci Králové (prednosta: prof. dr. R. Petr) a  
Neurologická klinika lékařské fakulty KU [Karlovy university] v Plzni (prednosta: prof. dr. V. Pícha).

MENSIKOVA, Zdenka; VRBIK, Jan; Technická spolupráce: KARLICKOVA, H.;  
SKRIVANOVA, S.

Clinical and electroencephalographic picture of encephalomalacia. Acta Univ. Carol. [med.] (Praha) 10 no.2:109-137 '64

1. Neurologická klinika lékařské fakulty University Karlovy v  
Plzni a Neurochirurgická klinika lékařské fakulty University  
Karlovy v Hradci Králové, (prednosta: prof. MUDr. R.Petr.)

MENSIKOVA, Zdenka; VRBIK, Jan. Technicka spoluprace: KARLICKOVA, H.;  
SKRIVANOVA, S.

Clinical picture and electroencephalogram of cerebral hemorrhages. Acta Univ. Carol. [med.] (Praha) 9 no.5:453-482 '63

1. Neurologicka klinika lekarske fakulty University Karlovy  
v Plzni.

Z/034/62/000/009/006/007  
E073/E535

AUTHOR: Vrbík, V1.

TITLE: Equipment for growing metal single crystals

PERIODICAL: Hutnické listy, no.9, 1962, 674

TEXT: The report describes experimental equipment for growing single crystals of metals. The equipment is designed in such a way that it enables: a) preparing single crystals of metals or alloys with fusion points up to 1100°C by the Bridgman or Chalmers method from melts; b) preparing single crystals of metals or alloys under investigation by the method of recrystallization; c) annealing metallic specimens in an inert or reducing atmosphere and possibly in vacuum. The passage of the temperature gradient through the specimen is effected by moving the furnace along a quartz tube into which the specimen is placed. This eliminates a number of difficulties connected with moving the specimen when vacuum or special atmospheres are used.

Research Report SVUMT Z-61-1085.

16 pages, 6 figures.

[Abstractor's note: Complete translation.]

Card 1/1

Z/020/63/000/001/001/005  
D006/D102AUTHOR: Vrbík, V1.

TITLE: Equipment for growing metal single crystals

PERIODICAL: Energetika, no. 1, 1963, 53

TEXT: The report describes an experimental set-up for growing metal single crystals. The set-up is so designed that it allows: a) growing single crystals of metals or alloys with a melting point up to 1,100°C from the melt using the Bridgman or Chalmers method; b) growing single crystals of the investigated metals by the recrystallization method; c) annealing metal specimens in inert-gas or reducing atmosphere, or in a vacuum. Passing of the specimen through heat gradient is accomplished by the travel of the furnace along a quartz tube containing the specimen. Through this arrangement a number of problems was avoided which would arise if some other technique of moving the specimen through vacuum or special atmospheres were employed. [Abstracter's note: This is a complete translation of an abstract from the Vyzkumna zprava SVUMT (SVUMT Research Report) no. Z-61-1085, Prague, 1961.]

Card 1/1

VRBIK, Vl.; DRAPAL, S.; KRAUS, Vl.; LOBL, K.; VYKLICKY, M.; KABRHEL, A.;  
SUSTEK, A.; SLABA, J.; STETINA, K.; SCHREIBER, B.; PRUDKY, J.

Information on the reports of the State Research Institute of  
Material and Technology. Energetika Cz 13 no.1:53-54 Ja '63.

VRBKA, M.

Data on therapeutic procedures in the treatment of compression fractures of the spine. Rozhl. chir. 43 no.7:469-473 JI '64.

1. Chirurgické oddelení fakultní nemocnice II v Praze (vedoucí doc. dr. O. Vanecková).

VRBKA, Milos

Fractures of the body of the spine due to contraction of the muscles.  
Rozhl. chir. 40 no.12:825-829 '61.

1. III chir. klinika KU, prednosta doc. dr. G. Vaneckova.  
(SPINE fract. & disloc.) (MUSCLES diseases)  
(SPORTS)

VRBOS, V.

Influence of the initial and added gelatin on the basic photographic characteristics of emulsions. Kem ind 12 no.5:333-335 My '63.

1. Fotokemia, Zagreb.

VRBOS, Velimir, inz. (Zagreb)

Effect of a combined stabilization in photographic emulsions. Kem  
ind 11 no.11:664-666 N '62.

CZECHOSLOVAKIA/Human and Animal Physiology (Normal and Patho- T  
logical). Nerve and Muscle Physiology.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79913.

Author : Zak, A.; Gutmann, E.; Vrbov, G.

Inst :

Title : Quantitative Changes in Muscle Proteins After Direct  
Stimulation of Muscle.

Orig Pub: Ceskosl. fysiол., 1957, 6, No 3, 323-328.

Abstract: During direct electric stimulation of the anterior  
tibialis of a rat at the rate of 120 pul/min. there  
was noted immediately after stimulation an increase  
of the content of non-protein N by 20.8%; after 4  
hours, the increase was maintained at 20.6%. Imme-  
diately after stimulation at a rate of 300 pul/min.,  
the content of non-protein N decreased by 17.1%, and,

Card : 1/2

✓ 11/20/57  
BERANEK, R.; HNIK, P.; VRBOV, G.

Denervation atrophy of various skeletal muscles in rats. Cesk. fysiол.  
6 no.2:166-169 1957.

1. Fysiologicky ustav CSAV, Praha.  
(MUSCLES, innervation,  
denervation, causing atrophy in rats (Cs))

VRBOVA, G.

ZAK, R.; GUTMANN, M.; VRBOVA, G.

Quantitative modifications of muscle proteins following direct irritation of the muscle. Cesk. fysiол. 6 no.3:323-328 Aug 57

1. Fysiologicky ustav CsAV, Praha.

(MUSCLES, physiology,

eff. of excitation on protein content (Cz))

(MUSCLE-PROTEINS, metabolism,

eff. of musc. excitation on content (Cz))

VRBOVA,

3  
The significance of the nervous system for the super-  
compensation of glycogen loss in the skeletal muscles.  
E. Gutman, Z. Vrbova, and C. Vrbova. *Physiol. Bohemoslov.* 3, 1954.  
Czech. Acad. Sci., Prague. *Physiol. Bohemoslov.* 3, 1954.  
The ability of the muscles to synthesize glycogen  
in increased quantity after being charged with an elec-  
trical current was investigated. The expts. were performed on rats  
by direct excitation of the sciatic nerve with 1 cc. during the  
course of 15 min. At the end of this time a 50% glucose  
soln. was injected into the animal's stomach. After  
2, 4, and 6 hrs. the glycogen in the muscles was detd.  
The gradual loss of the glycogen supercompensation in the  
muscle after suspension of the nerve innervation, and after  
investigation and treatment of the animal. *Physiol. Bohemoslov.* 3, 1954.



CZECHOSLOVAKIA/Human and Animal Physiology - Nervous System.  
Higher Nervous Activity. Behavior.

T-10

Abstr Jour : Ref Zhur - Biol., No 7, 1958, 32229

Author : Vrbova, G., Dutmann, E.

Inst :  
Title : Impairment of the Motor Function During Poliomyelitis  
from the Point of View of Afferent Signaling.

Orig Pub : Ceskosl. pediatrie, 1956, 11, No 6, 420-426

Abstract : Development of motor conditioned reflexes (CR) in rats  
parting of the phalanges of the extremities during de-  
crease) was significantly hindered or completely delayed  
during denervation of the extremity (compression of the  
sciatic nerve). If, in the period of denervation, the  
CR developed and attached earlier were strengthened, then  
the given CR was extinguished, and after reinnervation it  
proceeded to develop anew. If in the period of denerva-  
tion, CR was not used up to the time the unconditioned

Card 1/2

- 146 -

BASS, A.; GUTMANN, E.; HUDLICKA, O.; VRBOVA, G.

Effect of repeated irritation of the muscle on the course of glycogen resynthesis. Cesk. fysiол. 7 no.5:428-429 Sept 58.

1. Fysiologicky ustav CSAV, Praha.

(GLYCOGEN, metab.

musc. eff. of repeated irritation on resynthesis (Cz))

(MUSCLES, metab.

glycogen, eff. of repeated irritation on resynthesis (Cz))

GUTMANN, E.; VRBOVA, G.

Effect of tubocurarine administered during pregnancy in rabbits on off-  
spring. Cesk. fysiол: 7 no.5:459.Sept 58.

1. Fysiologicky ustav Csav, Praha.

(CURARE,

tubocurarine, eff. of admin. in pregn. rabbits on offspring  
(Cz))

(PREGNANCY,

eff. of admin. of tubocurarine in pregn. rabbits on off-  
spring (Cz))

GUTMANN, E.; ~~VRBOVA~~, G.

Continuation of adaptation reaction in interrupted hypothermia in normal and denervated muscles. Cesk. fysiол. 7 no.5:459-460 Sept 58.

1. Fysiologicky ustav CSAV, Praha.

(COLD, effects,

adaptation, reactions of normal & denervated musc. (Cz))

(ADAPTATION,

cold adaptation reactions in normal & denervated musc. (Cz))

(MUSCLES, physiol.

same)

GUTHMANN, E.; VRBOVA, G.

Significance of motor signalization in formation of conditioned motor food reflexes. Cesk. fysiол. 7 no.5:461 Sept 58.

1. Fysiologicky ustav Csav, Praha.

(REFLEX, CONDITIONED,

motor signaling in form. of conditioned motor food reflexes  
(Cs))

CZECHOSLOVAKIA/Human and Animal Physiology. Neuromuscular Physio- T-11  
logy

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65604

Author : Drahota Z., Gutmann E., Vrbova G.

Inst : -

Title : The Potassium Content of Normal Denervated and Innervated Muscle.

Orig Pub : Cechosl. fysiол., 1956, 5, No 3, 276-282

Abstract : The potassium content of the muscles of the extremities of rats was determined photometrically after an intraperitoneal dialysis was performed by the injection of Tyrode's solution (12 times within a 24 hour period). In normal muscle the potassium content after dialysis was reduced by 7.92% on the average; after a 1.1% solution of KCl (5 mg per 100 g) was injected into the peritoneal cavity, the potassium content increased by 10.77%, i.e., it approximated the initial level. The potassium content of denervated muscle

Card : 1/2

GUTMANN, E.; VRBOVA, G.

Significance of afferent signaling for reflex motor activity. Trudy  
1-go MMI 11:117-128 '61. (MIRA 15:5)

1. Fiziologicheskiy institut Chekhoslovatskoy Akademii nauk, Praga.  
(CONDITIONED RESPONSE)

VRBOVA, G.

Denervation atrophy and reinnervation in various skeletal muscles in rats. p.166.  
(Ceskoslovenska Fysiologie, Vol. 6, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

Vrbova, G.

Notes on the work of scientific medical centers in Hungary. P. 121  
CESKOSLOVENSKA FYSIOLOGIE. (Ceskoslovenska akademie ved. Fy-  
siologicky ustav) Praha  
Vol. 5, no. 1, 1956

Source: EEAL - LC Vol. 5. No. 10 Oct. 1956

VRBOVA, G.

"Effect of a repeated work load on the metabolism changes of the bone muscle during a defect in the dynamics of the higher nervous activity."

p. 369 (Ceskoslovenska Fysiologie) Vol. 5, no. 3, 1956.  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

VRBOVA, G.

Quantitative changes in the muscular proteins after a direct excitation of the muscle.

p. 323 (CESKOSLOVENSKA FYSIOLOGIE) Vol. 6, no.3, Aug, 1957,  
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958

VRBOVA, H.; GREGOROVA, I.

Adrenal steroids in prednisone therapy. Sborn. lek. 65 no.10:  
315-320 S '63.

1. Laborator pro endokrinologii a metabolismus pri III interni  
klinice fakulty vseobecneho lekarstvi University Karlovy v  
Praze, vedouci akademik J. Charvat.

(PREDNISONE) (17-KETOSTEROIDS) (URINE)  
(HYPERTRICHOSIS) (CHROMATOGRAPHY)  
(DEHYDROEPIANDROSTERONE)

VRBOVA, Kveta

Acetonemic vomiting in childhood. Cesk. pediat. 16 no.9:812-814 S '61.

1. Detske interni oddeleni Thomayerovy nemocnice, Praha-Krc, prednosta  
prim. MUDr. E. Kratkova.

(ACETONE blood) (VOMITING in inf & child)

SMIDKOVA, Dagmar; VRBOVA, Milada

A modified structural model for the chemical industry. Chem  
prum 14 no.2:57-59 F'64

1. Vyzkumny ustav technickoeconomicky chemickeho prumyslu,  
Praha.

VRBOVSKY, L.; DEMKOVA, A.; SELECKY, F.V.; Technicka spolupraca:  
SIRLOVA, M.

Protective effect of diethylaminoethylamide of dehydroabiatic  
acid (substance E-25) in CaCl<sub>2</sub>-induced arrhythmias in rats.  
Cas. lek. cesk. 102 no.19:527-531 10 My '63.

1. CSAV, Chemicky ustav SAV, Bratislava, riaditel akademik  
J. Vasatko.

(PHENANTHRENES) (MYOCARDIAL DEPRESSANTS)  
(ARRHYTHMIA) (CALCIUM) (CHLORIDES)  
(RATS)

VRCELJ, Stefanija; BANKOVIC, Stanoje; LEPOSAVIC, Miodir

Malnutrition syndrome after partial gastrectomy. Srpski arh.  
celok. lek. 87 no.11:1061-1067 N '59.

1. Interna klinika A Medicinskog fakulteta u Beogradu, Upravnik:  
prof. dr Branislav Stanojevic; Patolosko-anatomski institut Medi-  
cinskog fakulteta u Beogradu, Upravnik: prof. dr Zivojin Ignjacev.  
(GASTRECTOMY compl.)  
(EVACIATION etiol.)

Vrestal, J.

Distr: 4E2c(j)

Complex compounds of tellurium with thiourea. I.

Vřetislav (Vojenská akad. A. Zápotočského, Brno, Czech.),  
Collection Czechoslov. Chem. Commun. 25, 443-50 (1960) (in  
German).—From solns. contg. Te(IV) and excess CS(NH<sub>2</sub>)<sub>2</sub>,  
yellow cryst. salts of thio-carbamidotellurium cations  
contg. pos. bivalent Te sep. at higher concns. of Te. Thus,  
aq. 0.06M Na<sub>2</sub>TeO<sub>4</sub> made acid with 60 ml. concd. HCl,  
dild. with H<sub>2</sub>O to 800 ml., added dropwise with stirring to  
0.40 mole CS(NH<sub>2</sub>)<sub>2</sub> in 1000 ml. H<sub>2</sub>O acidified with 40 ml.  
HCl, the resulting yellow suspension of crystals sucked off,  
washed subsequently with 0.5% aq. CS(NH<sub>2</sub>)<sub>2</sub>, a half-satd.  
soln. of CS(NH<sub>2</sub>)<sub>2</sub> in EtOH, a little abs. EtOH and Et<sub>2</sub>O,  
and dried gives 29 g. triclinic prisms of Te(CSN<sub>2</sub>H<sub>4</sub>)<sub>2</sub>Cl<sub>2</sub>·  
2H<sub>2</sub>O (I), m. 175° (decompn.), d. 1.870. Anhyd. I, ob-  
tained by drying the dihydrate at 70-80° or by treating a  
soln. of 0.15 mole TeCl<sub>4</sub> in 250 ml. MeOH with 0.3 mole  
CS(NH<sub>2</sub>)<sub>2</sub> in 300 ml. MeOH and 5 ml. alc. HCl gives crys-  
tals, m. 175° (decompn.), d. 1.97. When 0.06 mole Na<sub>2</sub>-  
TeO<sub>4</sub> in 1000 ml. dil. HCl is added at once to a soln. of 0.16  
mole CS(NH<sub>2</sub>)<sub>2</sub> in 1000 ml. H<sub>2</sub>O contg. 80 ml. HCl, and the  
fine monoclinic crystals worked up as above, 8.0 g. of Te-  
(CSN<sub>2</sub>H<sub>4</sub>)<sub>2</sub>Cl<sub>2</sub> is obtained, m. 184° (decompn.), d. 2.23.  
Similarly is obtained in 52% yield from dil. HBr solns. Te-  
(CSN<sub>2</sub>H<sub>4</sub>)<sub>2</sub>Br<sub>2</sub>, monoclinic tablets, m. 170° (decompn.), d.  
2.57, whereas concd. solns. yield 89% of the same compd. as  
short prisms, m. 222°, d. 2.47. Analogously are obtained  
Te(CSN<sub>2</sub>H<sub>4</sub>)<sub>2</sub>(ClO<sub>4</sub>)<sub>2</sub>, m. 144° (decompn.), d. 2.11; Te-  
(CSN<sub>2</sub>H<sub>4</sub>)<sub>2</sub>(NO<sub>3</sub>)<sub>2</sub>·2H<sub>2</sub>O, m. 117°, d. 1.90; Te(CSN<sub>2</sub>-  
H<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>·2H<sub>2</sub>O, m. 141°, d. 1.74; and Te(CSN<sub>2</sub>H<sub>4</sub>)<sub>2</sub>(HC-  
O<sub>2</sub>)<sub>2</sub>·2H<sub>2</sub>O, m. 170°, d. 1.95. All compds. are sol. in polar  
and insol. in nonpolar solvents. With the exception of the  
sulfate, oxalate, and nitrate, they are stable in air over 2  
years.

L. J. Urbánek

4  
22 (NA)  
1

10/1

Distr: 4E3e 2 cys

On the Application of Darwin's Method of Wave Bundles in the de Broglie Theory of Theory of Particles With Spin 1 of the Meson Type. (Wave Equation) 10

Vrkijan, V. S. Über die Anwendung der Methode des Darwinschen Wellenpaketes in der de Broglieschen Theorie der Partikeln mit dem Spin 1 vom Typus des Mesons. Bull. Internat. Acad. Yougoslave. Cl. Sci. Math. Phys. Tech. 5 (1955), 33-34.

Es handelt sich um Partikel, welche durch die Wellengleichung

$$(\ast) \quad \mathcal{H}\psi_{\pm 1} + \frac{\hbar}{2} \frac{a_0 + b_1 \partial \psi_{\pm 1}}{\partial t} = 0$$

charakterisiert werden.  $\mathcal{H}$  ist der Hamiltonsche Operator, wie er in die neuere Theorie durch L. de Broglie eingeführt worden ist [cf. L. de Broglie, Théorie générale des particules à spin, Gauthier-Villars, Paris, 1943; p. 101]. (\*) genügt nicht, um das magnetische Moment der de Broglieschen Partikel zu bestimmen und muß durch weitere Gleichungen ergänzt werden. Der Berechnung des gesuchten magnetischen Momentes geht die Berechnung der Komponenten der statistischen Dichte des elektrischen Stromes voraus. Die in die Rechnung eingehenden Diracschen Matrizen entsprechen de Broglie's Methode der Fusion. M. Pini (Cologne)

9  
Do the de Broglie Particles With Spin 1 of the Meson Type Carry Out the  
Schrodinger Oscillations? (Wave Equation) \0

6935:

Vukljan, V. S. Führen die de Broglieschen Teilchen mit  
dem Spin 1 vom Typus des Mesons die Schrödingerschen  
Oszillationen aus? Bull. Internat. Acad. Yougoslave.  
Cl. Sci. Math. Phys. Tech. 5 (1955), 35-38.

Entgegen einem Theorem von Ehrenfest führt nach  
E. Schrödinger der statistische Schwerpunkt des Elek-

trons und des Positrons entsprechend der Diracschen  
Theorie eine Serie von Oszillationen aus. Auch für de  
Brogliesche Partikel vom Spin 1 vom Typus des Mesons  
gilt Ehrenfest's Theorem nicht. Verfasser errechnet unter  
Verwendung der de Broglieschen Fusionsmethode einen  
analogen Oszillationseffekt für diese Mesonen.

M. Pini (Cologne)

3  
1-F/W

Distr: 483e 2 oys

On Spin Operators in the New de Broglie Theory of Particles With Spin-Maximum 1

6936:

Vukobratovic, V. S. Über die Spin-Operatoren in der neueren de Broglieschen Theorie der Partikeln mit dem Spin-Maximum 1. Bull. Internat. Acad. Yougoslave. Cl. Sci. Math. Phys. Tech. 5 (1955), 49-52.

In einer früheren Theorie gelangte L. de Broglie zu Spinoperatoren in der Partikeltheorie vom Spinmaximum 1 durch Bestimmung des Operators des gesamten Impulsmomentes, der mit dem Hamiltonschen Operator vertauschbar ist [cf. L. de Broglie, Une nouvelle théorie de la lumière, la mécanique ondulatoire du photon, tom I, La lumière dans le vide, Hermann, Paris, 1940; siehe S. 185; und Théorie générale des particules à spin, Gauthier-Villars, Paris, 1943; S. 131]. In einer neueren Theorie entwickelte L. de Broglie jedoch zum gleichen Zweck eine andere Methode [cf. L. de Broglie, Mécanique ondulatoire du photon et théorie quantique des champs, Gauthier-Villars, Paris, 1949; MR 10, 663; pp. 32-33]. Demgegenüber verfolgt Verfasser L. de Broglie's erste Methode auch im Falle von dessen neuerer Theorie und untersucht die auf diesem Wege zu gewinnenden Spinoperatoren.

M. Pini (Cologne).

WAVE EQUA.

1-FW

2

Does There Exist an Analog of the Hertz Vector in the de Broglie Equations for the Electron and Positron? (Wave Equation, Dirac's Equation) \\

6937:

Vrkljan, V. S. Besteht ein Analogon dem Hertzschen Vektor bei den de Broglieschen Gleichungen des Elektrons und des Positrons? Bull. Internat. Acad. Yougoslave. Cl. Sci. Ma h. Phys. Tech. 5 (1955), 95-96.

L. de Broglie hat aus den Diracschen Gleichungen des Elektrons bzw. Positrons Gleichungen vom Maxwell'schen Typus für dieselben Teilchen hergeleitet. Verfasser führt diese Ergebnisse weiter und findet auch das Analogon zum Hertzschen Vektor innerhalb L. de Broglie's Gleichungen vom Maxwell'schen Typus. Überdies lassen sich L. de Broglie's erwähnte Gleichungen vom Maxwell'schen Typus mit L. de Broglie's "Photonengleichungen" vereinheitlichen.

M. Pini (Cologne).

2  
1-FW

VRBOVA, G.

Course of reinnervation of a muscle deprived of the afferent nerve.

p. 348 (CESKOSLOVENSKA FYSIOLOGIE) Vol. 6, no. 3, Aug. 1957,  
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958

The results of the study of the nervous system  
of the human body are of great interest to the  
physiologist. The study of the nervous system  
is a complex task, and the results of the study  
are of great interest to the physiologist. The  
study of the nervous system is a complex task,  
and the results of the study are of great interest  
to the physiologist. The study of the nervous  
system is a complex task, and the results of the  
study are of great interest to the physiologist.

REVISTA MEDICA Sec.2 Vol.10/7 Phy.Biochem. July 57

2970. VRBOVA G. Fysiol. Ust. CsAV, Praha. Vliv opakovaného pracovního zatížení na změny metabolismu kosterního svalu při poruše dynamiky vyšší nervové činnosti *Effect of repeated work on changes in skeletal muscle metabolism in the presence of disturbances of the dynamics of higher nervous activity* Csl. Fysiol. 1956, 5/3 (369—372) Graphs 2 Tables 1

It was shown in previous experiments that in trained rats (daily swimming) glycogen is synthesized to a lesser degree after glucose administration in the soleus and m.ext.dig.long. than in control animals. In rats daily shocked with electric current (nociceptive stimulation) the opposite was observed (an increase in synthesis). In the present study rats were trained by swimming and stimulated nociceptively daily. This procedure resulted in a reaction of the glycogen similar to that in normal rats.

Hahn — Prague

VRBOVA, G.

Significance of proprioceptive neural fibers in regulation of metabolism in the striated muscle. Chekh. fiziol. 3 no.4:415-419 1954.

1. Fiziologicheskiy institut Chekhoslovatskoy Akademii nauk, Praga.  
(MUSCLES, metabolism,  
regulation by proprioceptive nerve fibers in striated musc.)

VRBOVA, G.

"Stability of Water Metabolism in the Cerebrum." p. 130, Praha, Vol. 1, no. 2, Sept. 1952.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

VRBOVA, G.

BERANEK, R.; GUTMANN, E.; VRBOVA, G.

Changes in the synthesis of glycogen during recovery of function of denervated and tenotomized muscles. Chekh. fiziol. 3 no.1: 47-52 1954.

1. From the Biological Institute of the Czechoslovak Academy of Science Physiology Department, Prague.

(GLYCOGEN, metabolism,  
muscles, synthesis during recovery after denervation  
& tenotomy)

(MUSCLES, metabolism,  
glycogen, synthesis during recovery after denervation  
& tenotomy)

(WOUNDS AND INJURIES, experimental,  
muscle, glycogen synthesis during recovery)